

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049633 A1

- (51) International Patent Classification⁷: **C07H 19/04**, (74) Agent: **GITTINGER, Andreas**; Cognis IP Management GmbH, Postfach 13 01 64, 40551 Düsseldorf (DE).
A61K 31/7052, 7/42, A61P 17/02
- (21) International Application Number: **PCT/EP2004/011990** (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 23 October 2004 (23.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03292735.2 3 November 2003 (03.11.2003) EP (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicants (for all designated States except US): **COGNIS IP MANAGEMENT GMBH (DE/DE)**; Henkelstr. 67, 40589 Düsseldorf (DE). **COGNIS FRANCE S.A. (FR/FR)**; Boussens, F-31360 Saint-Martory (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KEMPERS, Peter (DE/DE)**; An den Pappeln 22, 41516 Grevenbroich (DE). **MOUSSOU, Philippe (FR/FR)**; 14, rue de Marsal, F-54000 Nancy (FR). **DANOUX, Louis (FR/FR)**; 12, rue de Bretagne, F-54420 Saulxures Les Nancy (FR). **BOTH, Sabline (DE/DE)**; Neustädter Weg 23, 40229 Düsseldorf (DE). **BEVERUNGEN, Carsten (DE/DE)**; Nixenstrasse 22, 40591 Düsseldorf (DE). **PAULY, Gilles (FR/FR)**; 5, rue de Begonias, F-54000 Nancy (FR).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ACYL RIBONUCLEOSIDES AND ACYL DEOXYRIBONUCLEOSIDES**

(57) Abstract: The present invention is concerned with acyl ribonucleosides and with acyl deoxyribonucleosides. It is furthermore concerned with an enzymatic process for the manufacture of acyl ribonucleosides and of acyl deoxyribonucleosides. It is furthermore concerned with the use of acyl ribonucleosides and of acyl deoxyribonucleosides for cosmetic and for pharmaceutical purposes and with their use as a food supplement for humans or animals. It is furthermore concerned with compositions containing acyl ribonucleosides and acyl deoxyribonucleosides, whereby these compositions are suitable for cosmetic or for pharmaceutical purposes or as food supplement.



WO 2005/049633 A1